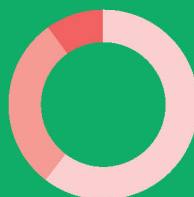


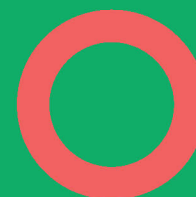
A 'SMART' way to treat tooth decay: innovative new dental cavity treatment removes the need to drill



Tooth decay is the most common affliction in humans



60–90%
of children



100%
of adults

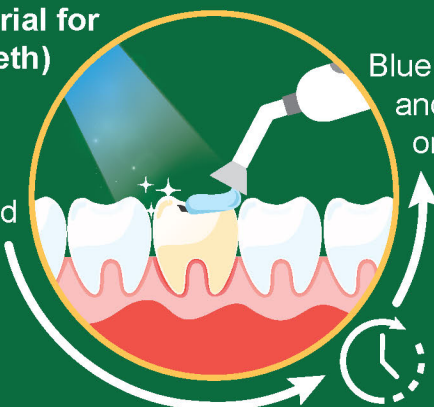
Treatment involves drilling out the decayed tissue and replacing it with an artificial filling

This can be a painful and lengthy procedure requiring local anesthetic administration, and can cost the NHS ~£3.4 billion each year

Now, all this can soon be in the past, with the innovative filling material that Profs Young and Ashley have developed and tested (via phase I clinical trials) at UCLH BRC

SMART (Self-adhesive Material for Automatic Restoration of Teeth)

Can be directly applied to decayed tooth



Blue light exposure causes it to harden and set, halting disease and restoring original tooth appearance and strength

In less than 5 mins,
penetrates decayed tissue



What's more: SMART is antibacterial and encourages natural tooth self-protection mechanisms

SMART's simplified procedure and high efficiency



Greatly
reduces cost



Eliminates pain
and inconvenience



Can be beneficial in regions with poor
access to dental facilities and expertise

The UCLH BRC team is currently running a phase II clinical trial to obtain approval for bringing this treatment to clinics

SMART could revolutionise tooth decay treatment, particularly in children, and in future be adapted to other applications such as use as a cement alternative in orthopaedics